

## Material: ASME SA-351 Grade CN7M

### Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASME SA-351 Grade CN7M Steel Castings for General Engineering Purposes

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.070 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	19.000 - 22.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	27.500 - 30.500		
Copper	Cu %	3.000 - 4.000		
Iron	Fe %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 425 min. Yield Strength in Mpa 170 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
332C11	BS	British	Casting
Z 2 NCDU 25.20.04 M	AFNOR NF	France	Casting
2074/H9A	AS	Australia	Casting
A 351 Grade CN7M	ASTM	USA	Casting
A 743 Grade CN-7M	ASTM	USA	Casting
A 743 N08007	ASTM	USA	Casting
A 744 Grade CN-7M	ASTM	USA	Casting

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